

**NONPROVISIONAL PATENT  
APPLICATION TRANSMITTAL RULE §1.53(b)  
IN THE UNITED STATES PATENT AND TRADEMARK OFFICE**

ARENT FOX KINTNER PLOTKIN & KAHN, PLLC  
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Suite 600  
Washington, DC 20036-5339

Docket No. 101190-00010

Date: December 4, 2000

Commissioner for Patents  
Washington, D.C. 20231

Sir:

Transmitted herewith for filing under 37 C.F.R. §1.53(b) is a nonprovisional patent application:

For (Title): MULTI-CHANNELED LOOP HEAT TRANSFER DEVICE WITH HIGH  
EFFICIENCY FINS

By (Inventors): Byung-Kyu PARK, Hyo-Bong KIM, Charn-Jung KIM, Joon-Sik LEE

- ☒ 35 pages of Specification/Claims 1-17/Abstract are attached.  
☒ Formal drawings (Fig. 1a-12d; 17 sheet(s) are attached.  
☒ A Declaration and Power of Attorney is attached.  
☒ An assignment of the invention to Korea Institute of Machinery & Materials is attached, along with Form PTO-1595 and a check for \$40.00.  
☐ An Information Disclosure Statement is attached, along with Form PTO-1449, and \_\_\_\_\_ reference(s).  
☒ A Statement to establish small entity status under 37 C.F.R. §§1.9 and 1.27 is attached.  
☐ Please amend the specification by inserting before the first line the sentence --This nonprovisional application claims the benefit of U.S. Provisional Application No. \_\_\_\_\_, filed \_\_\_\_\_, --  
☒ Priority of foreign application No. 00-2400 filed May 4, 2000 in Korea is claimed under 35 U.S.C. §119.  
☒ A certified copy of the above corresponding foreign application is attached.

The filing fee is calculated below and includes claim status after entry of any Preliminary Amendment noted above:

			SMALL ENTITY		OR	LARGE ENTITY	
FOR:	NO. FILED	NO. EXTRA	RATE	FEE		RATE	FEE
BASIC FEE				\$ 355	OR		\$ 710
TOTAL CLAIMS	17 - 20	=	x 9 =	\$	OR	x 18	\$
INDEP CLAIMS	1 - 3	=	x 40 =	\$	OR	x 80	\$
<input type="checkbox"/> MULTIPLE DEPENDENT CLAIMS			+135 =	\$	OR	+270	\$
			TOTAL	\$ 355	OR	TOTAL	\$

- ☐ A check for the filing fee is not enclosed at this time.
- ☒ A check in the amount of \$395 [(\$355 for the filing fee and \$40 for the Assignment Recordation Fee)] is attached. Please charge any fee deficiency or credit any overpayment to Deposit Account No. 01-2300. However, this application is entitled to small entity status. DO NOT charge large entity fees to our Deposit Account.

Respectfully submitted,

*George E. Oram, Jr.*  
George E. Oram, Jr.  
Registration No. 27,931

*Specification/claims &  
drawings*